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Schoenauer, M.; Ehinger, A.; Braunschweig, B.;
Evolutionary Computation Proceedings, 1998. IEEE World Congress on Computationa
The 1998 IEEE International Conference on
4-9 May 1998 Page(s):136 - 141

| IEEE STD | IEEE Standard |

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Denghua Zhong; Mingchao Li; Gang Wang; Huang Wei;
Image and Graphics, 2004. Proceedings. Third International Conference on
18-20 Dec. 2004 Page(s):414 - 417

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Winkler, C.; Bosquet, F.; Cavin, X.; Paul, J.-C.;
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□   4. **Inversion in geology by interactive evolutionary computation**
Wijns, C.; Moresi, L.; Boschetti, F.; Takagi, H.;
Systems, Man, and Cybernetics, 2001 IEEE International Conference on
Volume 2, 7-10 Oct. 2001 Page(s):1053 - 1057 vol.2

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□   5. **Combining outcrop data derived from remote sensing data with 3-D geological m
characterize the complex structures in Kuqa area, northwest of China**
Yan Fuli; Fan Xiangtao; Shao Yun; Lu Huafu; Cheng Xiao;
Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE Internati
Volume 6, 24-28 June 2002 Page(s):3279 - 3281 vol.6

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□   6. **Computing GIC in large power systems**
Prabhakara, F.S.; Ponder, J.Z.; Towle, J.N.;
Computer Applications in Power, IEEE
Volume 5, Issue 1, Jan. 1992 Page(s):46 - 50

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7. **Acoustic point-source reflection from a seabed with a non-uniform fluid-like sedi**
Jin-Yuan Liu; Chung-Ray Chu; Yung-Hong Wu; Hsin-Yu Chen; Ti-Ting Yeh;
Underwater Technology, 2004. UT '04. 2004 International Symposium on
20-23 April 2004 Page(s):247 - 253
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☐   1. **Non-parametric identification of geological models**
Schoenauer, M.; Ehinger, A.; Braunschweig, B.;
Evolutionary Computation Proceedings, 1998. IEEE World Congress on Computationa
The 1998 IEEE International Conference on
4-9 May 1998 Page(s):136 - 141

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☐   2. **NURBS-Based 3D Graphical Modeling and Visualization of Geological Structures**
Denghua Zhong; Mingchao Li; Gang Wang; Huang Wei;
Image and Graphics, 2004. Proceedings. Third International Conference on
18-20 Dec. 2004 Page(s):414 - 417

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☐   3. **Design and implementation of an immersive geoscience toolkit**
Winkler, C.; Bosquet, F.; Cavin, X.; Paul, J.-C.;
Visualization '99. Proceedings
24-29 Oct. 1999 Page(s):429 - 556

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☐   4. **Inversion in geology by interactive evolutionary computation**
Wijns, C.; Moresi, L.; Boschetti, F.; Takagi, H.;
Systems, Man, and Cybernetics, 2001 IEEE International Conference on
Volume 2, 7-10 Oct. 2001 Page(s):1053 - 1057 vol.2

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☐   5. **Combining outcrop data derived from remote sensing data with 3-D geological m
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Yan Fuli; Fan Xiangtao; Shao Yun; Lu Huafu; Cheng Xiao;
Geoscience and Remote Sensing Symposium, 2002. IGARSS '02. 2002 IEEE Internati
Volume 6, 24-28 June 2002 Page(s):3279 - 3281 vol.6

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☐   6. **Computing GIC in large power systems**
Prabhakara, F.S.; Ponder, J.Z.; Towle, J.N.;
Computer Applications in Power, IEEE
Volume 5, Issue 1, Jan. 1992 Page(s):46 - 50

AbstractPlus | Full Text: PDF(392 KB)   IEEE JNL

7. **Acoustic point-source reflection from a seabed with a non-uniform fluid-like sedi**
Jin-Yuan Liu; Chung-Ray Chu; Yung-Hong Wu; Hsin-Yu Chen; Ti-Ting Yeh;
Underwater Technology, 2004. UT '04. 2004 International Symposium on
20-23 April 2004 Page(s):247 - 253

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IEE CNF IEE Conference
Proceeding   **Select   Article Information**

IEEE   IEEE Standard
STD   ☐   **1. Integrated Geoscience Study of Charleston TACTS Platform Locations**
                                            Hasen, M.; Blake, T.; Young, A.;
                                            OCEANS
                                            Volume 18, Sep 1986 Page(s):673 - 678

                                            AbstractPlus | Full Text: PDF(368 KB)   IEEE CNF

                                    ☐   **2. Seismic velocity estimators**
                                            Kirlin, R.; Dewey, L.;
                                            Acoustics, Speech, and Signal Processing, IEEE International Conference on ICASSP
                                            Volume 8, Apr 1983 Page(s):1001 - 1004

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☐   1. **An intelligent basis for design**
Calvert, T.; Dickinson, J.; Dill, J.; Havens, W.; Jones, J.; Bartram, L.;
Communications, Computers and Signal Processing, 1991., IEEE Pacific Rim Conferei
9-10 May 1991 Page(s):371 - 375 vol.1

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21 What have we learnt from using real parallel machines to solve real problems?
G. C. Fox
January 1989 **Proceedings of the third conference on Hypercube concurrent computers and applications - Volume 2**

Full text available: ☑ pdf(4.08MB)   Additional Information: full citation, abstract, references, citings, index terms

We briefly review some key scientific and parallel processing issues in a selection of some 84 existing applications of parallel machines. We include the MIMD hypercube transputer array, BBN Butterfly, and the SIMD ICL DAP, Goodyear MPP and Connection Machine from Thinking Machines. We use a space-time analogy to classify problems and show how a division into synchronous, loosely synchronous and asynchronous problems is helpful. This classifies problems into those suitable for SIMD or MIMD ...

☐

22 Seismic modeling at 14 gigaflops on the connection machine
Jacek Myczkowski, Guy Steele
August 1991 **Proceedings of the 1991 ACM/IEEE conference on Supercomputing**

Full text available: ☑ pdf(955.28 KB)   Additional Information: full citation, references, citings, index terms

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23 Reconstruction of geological structures from heterogeneous and sparse data
Jean-Daniel Boissonnat, Stéphane Nullans
November 1996 **Proceedings of the 4th ACM International workshop on Advances in geographic information systems**

Full text available: ☑ pdf(1.55 MB)   Additional Information: full citation, references, index terms

Keywords: Voronoi diagrams, deformable curves, geological structures, shape reconstruction

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24 A hierarchical framework for parallel seismic applications
Lu Jian, Li Yingjun, Ma Xiaoxing, Cai Min, Tao Xianping, Zhang Guanqun, Liu Jianzhong
October 2000 **Communications of the ACM,** Volume 43 Issue 10

Full text available: ☑ pdf(115.42 KB)   Additional Information: full citation, references, citings, index terms, review

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25 Special issue: AI in engineering
D. Sriram, R. Joobbani
January 1985 **ACM SIGART Bulletin,** Issue 91

Full text available: ☑ pdf(8.79MB)   Additional Information: full citation, abstract

The papers in this special issue were compiled from responses to the announcement in the July 1984 issue of the SIGART newsletter and notices posted over the ARPANet. The interest being shown in this area is reflected in the sixty papers received from over six countries. About half the papers were received over the computer network.

☐ html(24.42 KB)

26 Session C1: volume rendering: Immersive volume visualization of seismic simulations: a case study of techniques invented and lessons learned
Prashant Chopra, Joerg Meyer, Antonio Fernandez
October 2002 **Proceedings of the conference on Visualization '02**

Full text available: ☑ pdf(15.20 MB)   Additional Information: full citation, abstract, references, index terms

This paper is a documentation of techniques invented, results obtained and lessons learned while creating visualization algorithms to render outputs of large-scale seismic simulations. The objective is the development of techniques for a collaborative simulation and visualization shared between structural engineers, seismologists, and computer scientists. The computer graphics research community has been witnessing a large number of exemplary publications addressing the challenges faced while tr ...

Keywords: level-of-detail, mesh simplification, multi resolution, unstructured meshes

☐

27 The cubic mouse: a new device for three-dimensional input
Bernd Fröhlich, John Plate
April 2000 **Proceedings of the SIGCHI conference on Human factors in computing systems**

Full text available: ☑ pdf(998.57 KB)   Additional Information: full citation, abstract, references, citings, index terms

We have developed a new input device that allows users to intuitively specify three-dimensional coordinates in graphics applications. The device consists of a cube-shaped box with three perpendicular rods passing through the center and buttons on the top for additional control. The rods represent the X, Y, and Z axes of a given coordinate system. Pushing and pulling the rods specifies constrained motion along the corresponding axes. Embedded within the device is a six degree of freedom tracki ...

Keywords: two-handed interaction, user interface hardware, virtual reality

☐

28 Safety management of civil structures using knowledge based systems
Mauro Cadei, Marco Lazzari, Paolo Salvaneschi
June 1990 **Proceedings of the third international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 2**

Full text available: ☑ pdf(881.06 KB)   Additional Information: full citation, abstract, references, index terms

With regard to the problems of safety of civil engineering structures, the technology of knowledge-based systems can provide new tools to manage the problem complexity and to assist safety experts and operators. The approach of the so called second-generation or

☐

deep-knowledge expert systems extends the idea of numerical modelling. It proposes the construction of software systems which implement complex models (with quantitative

29 Integrating volume data analysis and rendering on distributed memory architectures
Emilio Camahort, Indranil Chakravarty
November 1993 **Proceedings of the 1993 symposium on Parallel rendering**
Full text available: pdf(1.16 MB)   Additional Information: full citation, references, citings, index terms

30 SIGGRAPH'91 Workshop Report Integrating Computer Graphics, Computer Vision, and Image Processing in Scientific Applications
Ingrid Carlbom, Indranil Chakravarty, William M. Hsu
January 1992 **ACM SIGGRAPH Computer Graphics,** Volume 26 Issue 1
Full text available: pdf(1.28 MB)   Additional Information: full citation, citings, index terms

Keywords: 3D data processing, distributed memory architectures, graphics algorithms, parallel computer, scientific visualization, volume rendering

31 Complex relationships and knowledge discovery support in the InfoQuilt system
A. Sheth, S. Thacker, S. Patel
May 2003 **The VLDB Journal — The International Journal on Very Large Data Bases,** Volume 12 Issue 1
Full text available: pdf(596.98 KB)   Additional Information: full citation, abstract, citings, index terms

Support for semantic content is becoming more common in Web-accessible information systems. We see this support emerging with the use of ontologies and machine-readable, annotated documents. The practice of domain modeling coupled with the extraction of domain-specific, contextually relevant metadata also supports the use of semantics. These advancements enable knowledge discovery approaches that define complex relationships between data that is autonomously collected and managed. The InfoQuilt ...

32 Session N1: Future trends in oil and gas visualization
Francine Evans, William Volz, Geoffrey Dorn, Bernd Fröhlich, David M Roberts
October 2002 **Proceedings of the conference on Visualization '02**
Full text available: pdf(35.45 KB)   Additional Information: full citation, abstract

The question that this panel wishes to explore is: What are the future visualization trends and requirements for the oil and gas industry to efficiently handle and explore the ever-increasing volume and variety of available data?It has been proven many times that 3D visualization helps to reduce the risk in the search for, and development of, oil and gas resources and has been generally acknowledged to be an indispensable technology for the oil and gas industry. The role of the geoscientist is t ...

33 Experience with a large scientific application in a functional language
Rex L. Page, Brian D. Moe
July 1993 **Proceedings of the conference on Functional programming languages and computer architecture**
Full text available: pdf(834.14 KB)   Additional Information: full citation, references, index terms

34 Blueprint for the future of high-performance networking: The OptIPuter
Larry L. Smarr, Andrew A. Chien, Tom DeFanti, Jason Leigh, Philip M. Papadopoulos

November 2003 **Communications of the ACM,** Volume 46 Issue 11
Full text available: pdf(1.63 MB), html(35.11 KB)   Additional Information: full citation, abstract, references, citings, index terms

This architecture/infrastructure of parallel optical networks couples data exploration, visualization, and collaboration technologies through IP at multi-gigabit speeds.

35 Gigabyte volume viewing using split software/hardware interpolation
William R. Volz
October 2000 **Proceedings of the 2000 IEEE symposium on Volume visualization**
Full text available: pdf(917.24 KB)   Additional Information: full citation, references, citings, index terms

Keywords: large datasets, texturing, trilinear interpolation

36 Information services: Implementing a delegation model design of an HPCC application using concept/C
Patricia Comes Soares, Alan Randolph Karben
October 1993 **Proceedings of the 1993 conference of the Centre for Advanced Studies on Collaborative research: distributed computing - Volume 2**
Full text available: pdf(808.24 KB)   Additional Information: full citation, abstract, references

The emerging High-Performance Computing and Communication (HPCC) environment is significantly changing the way in which processes cooperate. In this paper, we identify some of the difficulties involved in modeling HPCC applications. We choose a specific application to illustrate these challenges: the collection and analysis of time series data for the observation of seismic sensored phenomena. We advocate the suitability of the delegation model to design HPCC applications, and we describe a dele ...

37 MI—an object oriented environment for integration of scientific applications
Andrea Spinelli, Paolo Salvaneschi, Mauro Cadei, Marino Rocca
October 1994 **ACM SIGPLAN Notices , Proceedings of the ninth annual conference on Object-oriented programming systems, language, and applications,** Volume 29 Issue 10
Full text available: pdf(1.16 MB)   Additional Information: full citation, abstract, references, index terms

Scientific and engineering software is often produced by integration of existing software components of the size of a whole program. However, on the average, scientific software was not developed for reusability and is quite distant from the user model of the application problem; Integration and retrofitting is as such a costly process. An architecture, methodology and several C++ class libraries for supporting integration are introduced. The architecture separates a software component lay ...

Keywords: C++, class libraries, software integration

38 Devices: Interaction techniques for navigation through and manipulation of 2D and 3D data
Dzmitry Aliakseyeu, Sriram Subramanian, Jean-Bernard Martens, Matthias Rauterberg
May 2002 **Proceedings of the workshop on Virtual environments 2002**
Full text available: pdf(137.43 KB)   Additional Information: full citation, abstract, references, citings

In this article we present a working prototype incorporating some new interaction techniques for the navigation through and the manipulation of both 3D and 2D data. The prototype aims at professional applications like architectural design, surgical planning and

geological exploration. Its design was influenced by the analysis of user requirements and by the requirement for a natural interface. The prototype permits the user to navigate through 3D and 2D data in order to explore the internal stru ...

Keywords: 2D interaction technique, 3D interface, augmented reality, manipulation, natural user interface, volume data navigation

39 Elastodynamics on clustered vector multiprocessors

V. Zecca, A. Kamel

June 1990 **ACM SIGARCH Computer Architecture News , Proceedings of the 4th international conference on Supercomputing,** Volume 18 Issue 3

Full text available: 🄯 pdf(640.17 KB)   Additional Information: full citation, abstract, references, citings, index terms

We present the parallelization of an elastodynamic code on a firmly coupled configuration consisting of two IBM 3090-600 VF, a total of 12 processors, joined with a connection facility. The programming environment used is Clustered FORTRAN which is a facility for writing and executing parallel programs on two coupled IBM 3090 vector multiprocessors (VMP). Clustered FORTRAN provides extensions to FORTRAN so that a single application program can execute across multiple 3090 systems as well as ...

40 Session: Defining and implementing a scientific analysis software architecture

William Ingram, Rodney D. Brown

November 2002 **OOPSLA 2002 Practitioners Reports**

Full text available: 🄯 pdf(3.86 MB)   Additional Information: full citation, abstract, references, index terms, review

The computing employed in oil and gas exploration is predominately scientific, resulting in a variety of data analysis applications. Although the analytical domains vary greatly (e.g., seismic processing, geologic modelling, engineering facilities design, etc.), the requirements that shape their software architectures are similar. Such analysis systems are rarely illustrated in the software analysis/design and architecture literature.We describe a product line software architecture.SAL ...

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1 High Resolution Forward And Inverse Earthquake Modeling on Terascale Computers
Volkan Akcelik, Jacobo Bielak, George Biros, Ioannis Epanomeritakis, Antonio Fernandez, Omar Ghattas, Eui Joong Kim, Julio Lopez, David O'Hallaron, Tiankai Tu, John Urbanic
November 2003 **Proceedings of the 2003 ACM/IEEE conference on Supercomputing**

Full text available: pdf(2.85MB)   Additional Information: full citation, abstract

For earthquake simulations to play an important role in the reduction of seismic risk, they must be capable of high resolution and high fidelity. We have developed algorithms and tools for earthquake simulation based on multiresolution hexahedral meshes. We have used this capability to carry out 1'Hz simulations of the 1994 Northridge earthquake in the LA Basin using 100 million grid points. Our wave propagation solver sustains 1.21 teraflop/s for 4 hours on 3000 AlphaServer processors at 80% pa ...

2 Modeling california earthquakes and earth structures
Michael R. Raugh
November 1985 **Communications of the ACM,** Volume 28 Issue 11

Full text available: pdf(5.06 MB)   Additional Information: full citation, abstract, references, index terms

Seismology has burgeoned into a modern science—force-fed by federal funding to advance technology for detecting underground nuclear explosions and predicting earthquakes, and by industry to improve tools for gas and oil exploration. Computers, seismic instrument systems, telemetry, and data reduction have played key roles in this growth.

3 Adaptive, unsupervised stream mining
Spiros Papadimitriou, Anthony Brockwell, Christos Faloutsos
September 2004 **The VLDB Journal — The International Journal on Very Large Data Bases,** Volume 13 Issue 3

Full text available: pdf(856.66 KB)   Additional Information: full citation, abstract, index terms

Sensor devices and embedded processors are becoming widespread, especially in measurement/monitoring applications. Their limited resources (CPU, memory and/or communication bandwidth, and power) pose some interesting challenges. We need concise, expressive models to represent the important features of the data and that lend themselves to efficient estimation. In particular, under these severe constraints, we want models and estimation methods that (a) require little memory and a single pass over ...

4 Realistic modeling and rendering of plant ecosystems
Oliver Deussen, Pat Hanrahan, Bernd Lintermann, Radomir Mĕch, Matt Pharr, Przemyslaw

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Prusinkiewicz
July 1998 **Proceedings of the 25th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(4.75 MB)   Additional Information: full citation, references, citings, index terms

Keywords: approximate instancing, ecosystem simulation, modelling of natural phenomena, plant model, realistic image synthesis, self-thinning, vector quantization

5 A new statistical formula for Chinese text segmentation incorporating contextual information
Yubin Dai, Teck Ee Loh, Christopher S. G. Khoo
August 1999 **Proceedings of the 22nd annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: pdf(710.16KB)   Additional Information: full citation, references, citings, index terms

Keywords: Chinese text segmentation, logistic regression, multi-word terms, word boundary identification

6 Data clustering: a review
A. K. Jain, M. N. Murty, P. J. Flynn
September 1999 **ACM Computing Surveys (CSUR),** Volume 31 Issue 3

Full text available: pdf(636.24 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Clustering is the unsupervised classification of patterns (observations, data items, or feature vectors) into groups (clusters). The clustering problem has been addressed in many contexts and by researchers in many disciplines; this reflects its broad appeal and usefulness as one of the steps in exploratory data analysis. However, clustering is a difficult problem combinatorially, and differences in assumptions and contexts in different communities has made the transfer of useful generic co ...

Keywords: cluster analysis, clustering applications, exploratory data analysis, incremental clustering, similarity indices, unsupervised learning

7 Managing battery lifetime with energy-aware adaptation
Jason Flinn, M. Satyanarayanan
May 2004 **ACM Transactions on Computer Systems (TOCS),** Volume 22 Issue 2

Full text available: pdf(1.61 MB)   Additional Information: full citation, abstract, references, index terms

We demonstrate that a collaborative relationship between the operating system and applications can be used to meet user-specified goals for battery duration. We first describe a novel profiling-based approach for accurately measuring application and system energy consumption. We then show how applications can dynamically modify their behavior to conserve energy. We extend the Linux operating system to yield battery lifetimes of user-specified duration. By monitoring energy supply and demand and ...

Keywords: Power management, adaptation

8 Technical papers: Aiding knowledge capture by searching for extensions of knowledge

models
David B. Leake, Ana Maguitman, Thomas Reichherzer, Alberto J. Cañas, Marco Carvalho, Marco
Arguedas, Sofia Brenes, Tom Eskridge
October 2003 **Proceedings of the International conference on Knowledge capture**

Full text available: [] pdf(458.76 KB)   Additional Information: full citation, abstract, references, citings, index terms, review

Electronic concept mapping tools empower experts to play an active role in the knowledge capture process, and provide a medium for building richly connected multimedia *knowledge models*---sets of linked concept maps and resources about a particular domain. Knowledge models are intended to be used as a means for sharing knowledge among humans, not as carefully-crafted knowledge bases upon which machines will be performing inference. However, users must still confront the questions of what t ...

Keywords: case-based reasoning, concept mapping, context, knowledge acquisition tools, knowledge engineering and modelling methodologies, knowledge management environments, retrieval

9 Business process modeling/reengineering: The process of process reengineering:
   visualization of probabilistic business models
   Lev Virine, Lisa Rapley
   December 2003 **Proceedings of the 35th conference on Winter simulation: driving Innovation**

Full text available: [] pdf(381.09 KB)   Additional Information: full citation, abstract, references

One of the main challenges in the modeling of business problems is to provide the modeler and the user with meaningful visual tools. The business model is usually presented by different types of flow charts and diagrams. If the modeling process is simplified in how it is represented to the user, it improves understanding, as well as, helps to interpret the result of the analysis. This paper discusses a proposed methodology for business modeling and how this process can be applied to real worl ...

10 Earthquake ground motion modeling on parallel computers
   Hesheng Bao, Jacobo Bielak, Omar Ghattas, Loukas F. Kallivokas, David R. O'Hallaron,
   Jonathan R. Shewchuk, Jifeng Xu
   November 1996 **Proceedings of the 1996 ACM/IEEE conference on Supercomputing (CDROM) - Volume 00**

Full text available: [] html(65.97 KB)   Additional Information: full citation, abstract, references, citings, index terms

We describe the design and discuss the performance of a parallel elastic wave propagation simulator that is being used to model and study earthquake-induced ground motion in large sedimentary basins. The components of the system include mesh generators, a mesh partitioner, a parceler, and a parallel code generator, as well as parallel numerical methods for applying seismic forces, incorporating absorbing boundaries, and solving the discretized wave propagation problem. We discuss performanc ...

11 An interactive computer graphics approach for dissecting a mixture of normal (or
   lognormal) distributions
   Richard B. McCammon
   July 1976 **ACM SIGGRAPH Computer Graphics , Proceedings of the 3rd annual
   conference on Computer graphics and interactive techniques**, Volume 10 Issue 2

Full text available: [] pdf(94.78 KB)   Additional Information: full citation, abstract, references

An interactive computer graphics program has been developed to dissect mixtures of normal (or lognormal) distributions. The program incorporates both graphical and analytical

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techniques to obtain a more satisfactory solution to the problem of dissection. Within a matter of minutes, a mixed frequency curve can be decomposed into its normal (or lognormal) components. A statistical summary following dissection makes it possible to evaluate the goodness-of-fit and the separability of the inferred su ...

12 Enabling level-of-detail matching for exterior scene synthesis
   Randy K. Scoggins, Robert J. Moorhead, Raghu Machiraju
   October 2000 **Proceedings of the conference on Visualization '00**

Full text available: [] pdf(307.15 KB)   Additional Information: full citation, citings, index terms

Keywords: image metrics, level-of-detail, multiresolution model, perception, rendering, terrain visualization

13 Image Models
   Narendra Ahuja, B. J. Schachter
   December 1981 **ACM Computing Surveys (CSUR)**, Volume 13 Issue 4

Full text available: [] pdf(2.99 MB)   Additional Information: full citation, references, citings, index terms

14 Special issue on knowledge representation
   Ronald J. Brachman, Brian C. Smith
   February 1980 **ACM SIGART Bulletin**, Issue 70

Full text available: [] pdf(13.13 MB)   Additional Information: full citation, abstract

In the fall of 1978 we decided to produce a special issue of the SIGART Newsletter devoted to a survey of current knowledge representation research. We felt that there were tw useful functions such an issue could serve. First, we hoped to elicit a clear picture of how people working in this subdiscipline understand knowledge representation research, to illuminate the issues on which current research is focused, and to catalogue what approaches and techniques are currently being developed. Secon ...

15 Computing curricula 2001
   September 2001 **Journal on Educational Resources in Computing (JERIC)**

Full text available: [] pdf(613.63 KB)   Additional Information: full citation, references, citings, index terms
[] html(2.78 KB)

16 Fairing of non-manifolds for visualization
   Andreas Hubeli, Markus Gross
   October 2000 **Proceedings of the conference on Visualization '00**

Full text available: [] pdf(2.59 MB)   Additional Information: full citation, citings, index terms

Keywords: boundary representations, fairing, geometric modeling, multiresolution models,
non-manifold, surface representations, triangle decimation

17 Modeling of seismic wave propagation at the scale of the Earth on a large Beowulf
   Dimitri Komatitsch, Jeroen Tromp

November 2001 Proceedings of the 2001 ACM/IEEE conference on Supercomputing (CDROM)

Full text available: 📄 pdf(5.17 MB) Additional Information: full citation, abstract, references, index terms

We use a parallel spectral-element method to simulate the propagation of seismic waves generated by earthquakes in the entire 3-D Earth. The method is implemented using MPI on a large PC cluster (Beowulf) with 151 processors and 76 Gb of RAM. It is based upon a weak formulation of the equations of motion and combines the flexibility of a finite-element method with the accuracy of a pseudospectral method. The finite-element mesh honors all discontinuities in the Earth velocity model. To maintain ...

18 Display. Feature congestion: a measure of display clutter
Ruth Rosenholtz, Yuanzhen Li, Jonathan Mansfield, Zhenlan Jin
April 2005 **Proceeding of the SIGCHI conference on Human factors in computing systems**

Full text available: 📄 pdf(419.86 KB) Additional Information: full citation, abstract, references, index terms

Management of clutter is an important factor in the design of user interfaces and information visualizations, allowing improved usability and aesthetics. However, clutter is not a well defined concept. In this paper, we present the Feature Congestion measure of display clutter. This measure is based upon extensive modeling of the saliency of elements of a display, and upon a new operational definition of clutter. The current implementation is based upon two features: color and luminance contrast ...

Keywords: clutter, display design, feature congestion, information density, recommender systems, visual interfaces, visualization

19 Session 4: big stuff: Large haptic topographic maps: marsview and the proxy graph algorithm
Sean P. Walker, J. Kenneth Salisbury
April 2003 **Proceedings of the 2003 symposium on Interactive 3D graphics**

Full text available: 📄 pdf(2.13 MB) Additional Information: full citation, abstract, references, index terms

In this paper we develop an interactive 3D browser for large topographic maps using a visual display augmented by a haptic, or force feedback, display. The extreme size of our data files (over 100 million triangles) requires us to develop the "proxy graph algorithm", a new haptic contact model. The proxy graph algorithm approximates proven virtual proxy methods but enhances the performance significantly by restricting the proxy location to the edges and vertices of the object. The resulting algo ...

Keywords: Mars, haptics, interface, large datasets, texture, topological map, virtual proxy

20 Subtopic structuring for full-length document access
Marti A. Hearst, Christian Plaunt
July 1993 **Proceedings of the 16th annual international ACM SIGIR conference on Research and development in information retrieval**

Full text available: 📄 pdf(1.02 MB) Additional Information: full citation, abstract, references, citings, index terms

We argue that the advent of large volumes of full-length text, as opposed to short texts like abstracts and newswire, should be accompanied by corresponding new approaches to information access. Toward this end, we discuss the merits of imposing structure on full-length text documents; that is, a partition of the text into coherent multi-paragraph units that represent the pattern of subtopics that comprise the text. Using this structure, we can make a distinction between th ...

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